# Periodic Table Plushie

**Kit contains:**

- 2 felt rectangles with holes
- yarn
- plastic needle
- letter O
- number 8
- “oxygen” patch
- 2 googly eyes
- stuffing

**You will need:** glue and scissors.

MORTON GROVE PUBLIC LIBRARY
6140 Lincoln Avenue, Morton Grove, IL 60053
Youth Info Desk: 847-929-5102 | mgpl.org

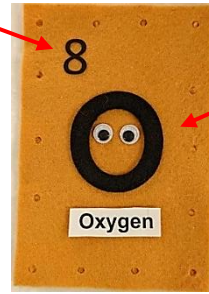
**Elements** are the building blocks of all matter– the stuff of everything in the universe! Each element is a substance that can't be split into simpler substances.

You've probably heard water referred to as $H_20$. Water is made of the elements hydrogen (H) and oxygen (O). It is a compound and not an element. If you split an element like oxygen into tinier and tinier parts, every single atom is still just oxygen.

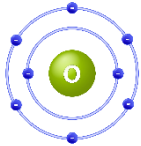
## INSTRUCTIONS

**Step 1.** Glue the letter O and the "oxygen" patch to one of the felt rectangles. Then stick on the number 8 and the googly eyes. Let the glue dry!

**8** is the atomic number for oxygen. There are 8 protons in the nucleus of every oxygen atom.



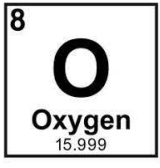

**O** is the symbol for oxygen.




There are 8 electrons in orbit around the nucleus.

**Step 2.** Use the plastic needle and yarn to sew the two felt rectangles together with the fluff stuffed in the middle. Snip off any excess yarn.

The **periodic table of elements** was invented in the 1860s by chemist Dmitri Mendeleev to organize the elements. There are 92 natural elements and (currently) 26 human-made elements. You can learn more about Mendeleev's periodic table in this SciShow video: youtube.com/watch?v=-wu0LixSBpk




You made a kawaii version of oxygen as it appears on the periodic table. Oxygen is found in almost all living things on Earth and deserves to be cute.

# FORMS & USES OF OXYGEN

On Earth, there are more atoms of oxygen than any other element. Here are just a few examples of what oxygen does:

The human body is 65% oxygen. Oxygen is a key component of the air that we breathe. Oxygen combines with hydrogen to form water.

Aquatic creatures need oxygen gas dissolved in water to live. Ever see bubbles on the side of a glass of water? Those are from dissolved oxygen (and some nitrogen). Fire and explosions happen because of a reaction between fuel and oxygen in the air.

## BOOKS TO LEARN MORE

- *Exploring the Elements: A Complete Guide to the Periodic Table* by Isabel Thomas
- *Oxygen* by Nancy Dickmann
- *The Oxygen Cycle* by Golriz Golkar
- *The Periodic Table: Elements with Style!* by Adrian Dingle